

## Datasheet: VMA00043KT

<b>Description:</b>	VISFATIN ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	VISFATIN
<b>Other names:</b>	NAMPT
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	2 Westerns

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Preparation

20µl Mouse monoclonal antibody purified by affinity chromatography on Protein G from ascites

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide (NaN<sub>3</sub>)

## Stabilisers

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**Immunogen** Recombinant human visfatin, amino acids 1-491, purified from *E. coli*

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## External Database Links

### UniProt:

[P43490](#)    [Related reagents](#)

### Entrez Gene:

[10135](#)    NAMPT    [Related reagents](#)

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**Synonyms** PBEF, PBEF1

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## Specificity

**Mouse anti Human visfatin antibody** recognizes human visfatin also known as nicotinamide phosphoribosyltransferase and pre-B-cell colony-enhancing factor 1, a putative cytokine and member of the [NAPRTase](#) family involved in catalyzing the biosynthesis of NAD from nicotinamide.

Visfatin is highly expressed in bone marrow, muscle and liver tissue and increases in expression in response to endotoxin, in amniotic epithelial cells following lipopolysaccharide (LPS) stimulation, and during the activation of T- and B-cells, dendritic cells and macrophages, suggesting a role in inflammatory processes. Visfatin is produced by visceral fat and appears to have effects similar to those of insulin ([Fukuhara et al. 2005](#)). Plasma levels of visfatin are elevated in patients with type 2 diabetes mellitus ([Chen et al. 2006](#)). It has also been suggested that macrophages in visceral white adipose tissue may be a prominent source of the adipokines visfatin and resistin as well as chemokines MCP-1, MIP1 $\alpha$  and IL-8, suggesting a pro-inflammatory marker role for visfatin ([Curat et al. 2006](#)).

Mouse anti Human Visfatin antibody recognizes human visfatin as a single band of ~56 kDa in K562 cell lysates and in other human cell line lysates by western blotting under reducing conditions. The antibody also cross-reacts with visfatin from mouse and rat cell lines.

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**Western Blotting** Anti visfatin antibody detects a band of approximately 56 kDa in K562 cell lysates.

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**Instructions For Use** Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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**Lysate Composition** 400 $\mu$ g K562 lysate lyophilized in RIPA buffer.

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**Lysate Reconstitution** - If using DDT reconstitute the lyophilized lysate with 190 $\mu$ l DI H<sub>2</sub>O, add 200 $\mu$ l 2x Laemmli Sample Buffer and 10 $\mu$ l 2M DTT.  
- If using BME reconstitute the lyophilized lysate with 180 $\mu$ l DI H<sub>2</sub>O, add 200 $\mu$ l 2x Laemmli Sample Buffer and 20 $\mu$ l BME.  
Heat at 95°C for 5 minutes. For 10 well mini gels load 25 $\mu$ l. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

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<b>Storage</b>	Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.  Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.
<b>Guarantee</b>	As supplied, 12 months from date of despatch.
<b>Acknowledgements</b>	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 #10561 available at: Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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